

The stories of the MANABAS Coast - Lancieux Bay

Mid term Assessment Story Presentations

 **MANABAS COAST**
NATURE-BASED SOLUTIONS

MANABAS
COAST

Interreg
North Sea



Co-funded by
the European Union

Context for the pilot Lancieux Bay

- 2 Polders – A lot of fontis in the dikes (coypu burrow, breach...) which protect (210 ha, 32 Houses, Golf, 2 campsites, Propriety of Conservatoire du littoral, roads, hiking trails)
- Public land since 2000 – mutual consent to acquisition of natural areas (used for intensive agriculture) to restore wetlands, then salt marshes
- Managment Realignment since breach 2020
- Study to understand the hydrosedimentary system
- Concertation with local population



The NBS opportunity

- Concertation with local population to re-think a new desirable future for Lancieux polder
- Recovering of natural habitats : monitoring of vegetation of saltmarsh restoration in Beaussais polder
- Monitoring of social perception



Problems: barriers to mainstreaming

- **Natural system:** Loss of freshwater wetlands.
- **Social system:** For many people, reconnecting these areas to the sea implies the loss of the current site, the loss of a familiar view, the loss of a routine.
- **Governance system:** Converging public policies are one of the keys to taking action now (conservatoire du littoral, region, state, local council municipality, commune)



fontis in the dike of lancieux - coypu burrow (winter 2024 - work before the spring tides of March 2025)



Solutions: mainstreaming actions

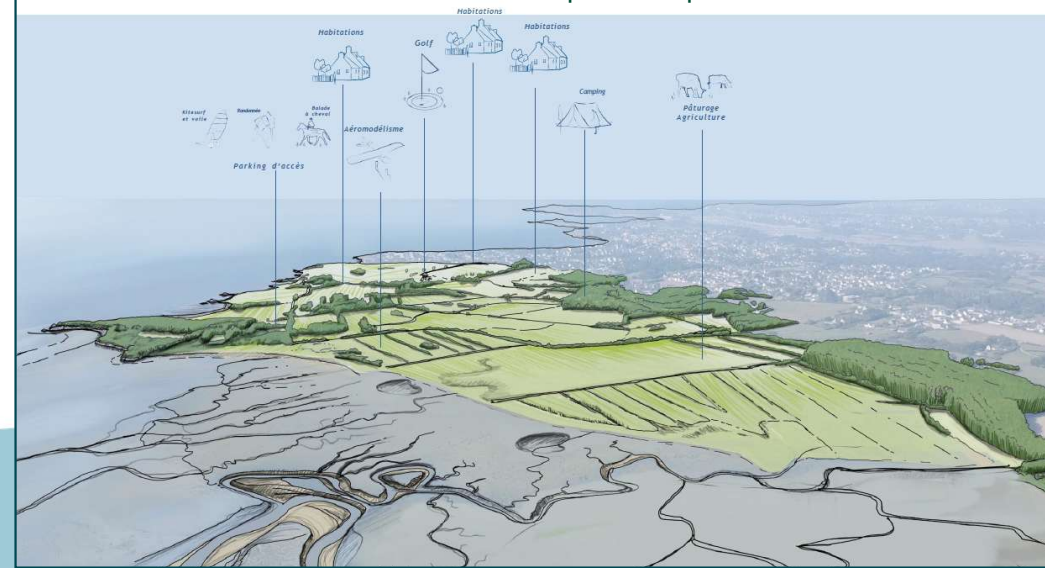
- **Social system:** Before making choice (between 3 solutions), concertation local authorities and population to find the project fit for local needs (farmers, hikers, wildlife watchers,...)
- **Natural system:** Development of a territory project based on natural habitats recovering
- **Governance system:** Integrate NBS into national and local strategic documents for a vision to 2050 and 2120* :
 - acquisition priority enables local authorities to buy back exposed property, with the aim of moving people away from risk areas and restoring the natural environment;
 - Mobilization of public land establishments to support local authorities in developing a land strategy (acquisition, renaturation and strategic retreat).

Change can be beneficial.



Aujourd'hui
Un paysage privilégié
Des usages

<https://www.polderdelancien.com/15/>

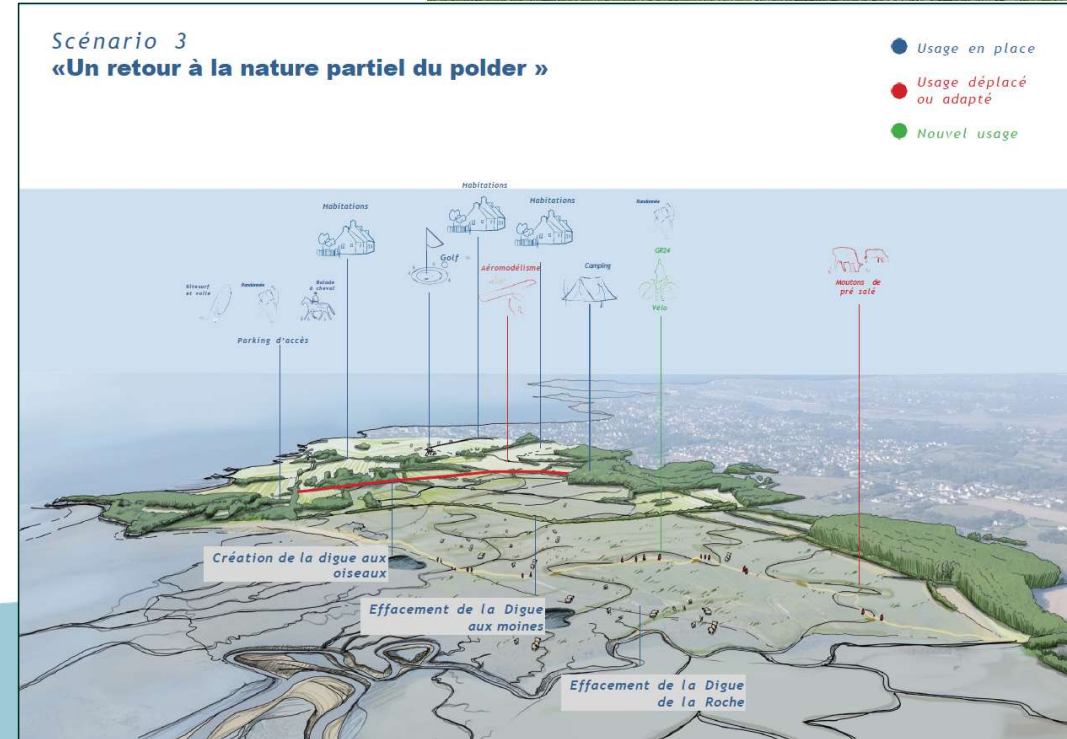
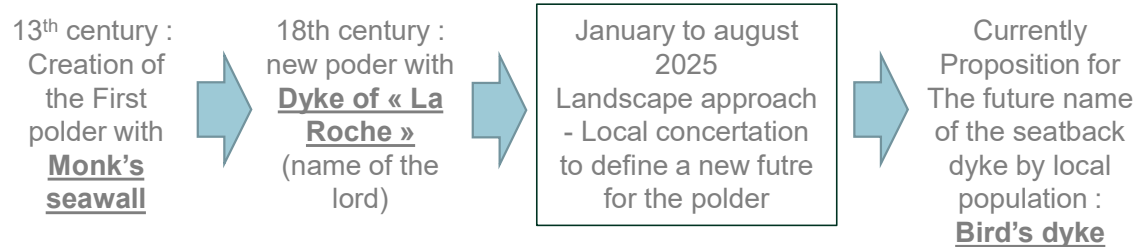


Progress to date (mid term)

- **Natural:** Fast growth of the typical saltmarsh vegetation and good development of the associated fauna on the reconnected sites. Well in line with expected dynamics predicted by the Ecological Quality Indicator.
- **Social:** Good media coverage and better narratives. The NbS are now considered by local population and elected as a good alternative for adaptation (new projects in other sites). Studies with economic stakeholders.
- **Governance:** Integration of Nbs in local schemes. Good integration in risk reduction plans



The purpose of the dyke is reflected by its name



Proof: results (successes) so far

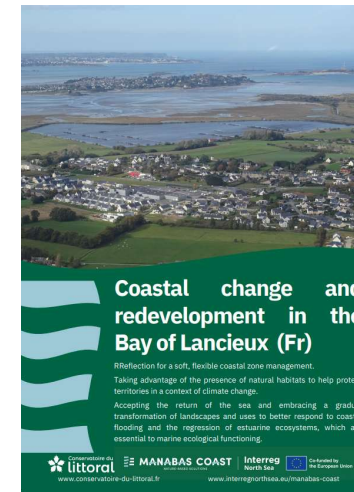
- **Natural system:** natural habitats help territory management with ecosystemic services
- **Social system :** approval of this new way of thinking by local authorities and population (perhaps the most efficient success !)
- **Governance system :** firmly anchor in minds this new way of consider the services can offer to the population the natural habitats



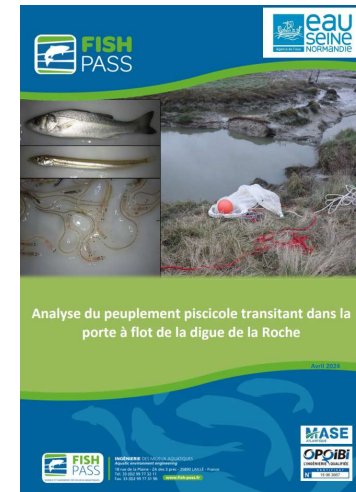
Impact: mainstreaming objective

Mainstreaming NBS on the coast based on natural dynamics, combining the reconnection of polders to the sea and the relocation of activities.

Bretagne Region adopted a regional strategy, to help local authorities draw up local strategies for sustainable management of the coastal strip, involving the local population and socio-economic players, and working on the right geographical (coherent longshore drift) and temporal (2050 and 2100) scale.



Summary of the work done by urban planning students to apply the climate and resilience law to the Bay (2023)



Fish monitoring following the failure of the floodgate on the Lancieux dike (2024)



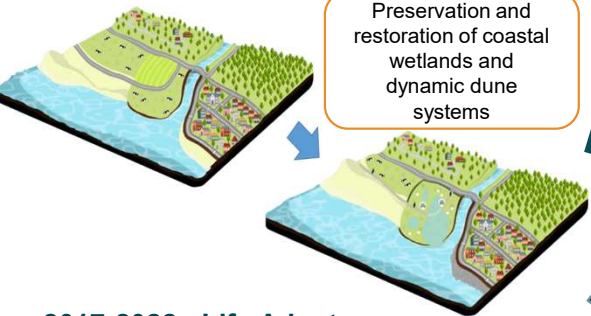
20/03/2023: a group of 3 Eurasian Spoonbills, including 'ND9L' is continuously present on the site, they seem to like it here - This one was ringed in June 2022 on the island of Texel.

Integrate NBS into national and local strategic documents for a vision to 2050 and 2120

2011-14 : Interreg project LiCCo (*Living with Changing Coast*) - Coastal adaptation project initiated by the Cdl at 5 pilot sites in Normandy (including the Orne estuary), based on the English Shoreline Management Plan.

2013 : Cdl Board of Directors adopts principles of action for adaptation to climate change

- Support rather than oppose natural coastal movements
- Experimenting with flexible management principles on a real scale



2017-2022 : Life Adapto
2022-2027 : MANABAS Coast

National flood risk management strategy

National climate change adaptation plan

National strategy for integrated coastline management
(2012 updated in 2017)

National Biodiversity Strategy 2030

National strategy for protected areas

Loi « Climat et Résilience » du 22 août 2021

French law on “**spatial redevelopment linked to the coastline**”:

- the right of pre-emption enables local authorities to buy back exposed property, with **the aim of moving people away from risk areas and restoring the natural environment**;
- Mobilization of public land establishments (EPF) and the **Conservatoire du littoral** : players to support local authorities in **developing a land strategy** (acquisition, renaturation and strategic retreat).

2015-2050 intégration climate change in long term strategy of Cdl

Regional facade strategy :
- Normandie
- Hauts de France
- Bretagne (approved or pending approval)

Development of a territory project :
territorial strategy shared by coherent longshore drift

Multiplying, generalizing works of NBS on the coast based on natural dynamics, combining the reconnection of polders to the sea, the restoration of dune and the redevelopment of coastal strips

2024-2029
Life Adapto+